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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,014	07/22/2003	Daniel P. Rini	RTI-101XC1	8426
23557	7590 01/19/2005		EXAM	INER
SALIWANCHIK LLOYD & SALIWANCHIK A PROFESSIONAL ASSOCIATION			TAPOLCAI, WILLIAM E	
PO BOX 1429			ART UNIT	PAPER NUMBER
GAINESVILI	LE, FL 32614-2950	4-2950		

DATE MAILED: 01/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summer	10/625,014	RINI ET AL.	CV				
Office Action Summary	Examiner	Art Unit					
	William E. Tapolcai	3744					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	Idress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 16 De	ecember 2004.						
	action is non-final.	•					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-98 is/are pending in the application.							
4a) Of the above claim(s) 7,18,26,56,57,60 and 62-95 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1-6,8,19-25,34,35,37-55,58,59,61,97 and 98 is/are rejected.							
7)⊠ Claim(s) <u>9-17,27-33,36 and 96</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	ſ.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	·		• •				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents	• •	·					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list (or the certified copies not receive	u.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		O-152)				
Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·	· ,				

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

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form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

2. Claims 1-6, 8, 19, 21, 22, 24, 30, 34, 37-40, 50-55, 58, 97, and 98 are rejected

under 35 U.S.C. 102(b) as being anticipated by Webber. Webber discloses a

refrigeration system having a condenser and means 28 for flowing a first external fluid

across the condenser wherein the fluid flow is parallel with the heat transfer surface of

the condenser.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 23, 25, 41-47, 59, and 61 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Webber. Webber discloses the claimed invention except for the type

of fluid used for the second external fluid, the design of the extended surface features.

the shape of the duct, and the direction of the fluid flow. The type of fluid used for the

second external fluid is a matter of obvious choice, as liquids used as condenser

cooling fluids per se are well known, and no criticality or unexpected results are seen or

have been disclosed for the use of liquids as the cooling fluid. Also, the design of the

extended surface features is a matter of obvious design choice to one of ordinary skill in

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the art. The shape of the duct and the direction of the fluid flow across the condenser are also matters of obvious choice to one of ordinary skill in the art.

- 5. Claims 20 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webber in view of Wang. Webber discloses the claimed invention except for the condenser being a liquid to vapor heat exchanger. Wang teaches a condenser 20 which is a liquid to vapor heat exchanger. It would be obvious to make the condenser of Webber a liquid to vapor heat exchanger, in view of Wang, for the purpose of providing more positive cooling.
- 6. Claims 48 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Webber in view of Reagan et al. Webber discloses the claimed invention except for the extended surface features being in a staggered arrangement. Reagan et al teaches a heat exchanger having the extended surface features in a staggered arrangement. See especially Fig. 9. It would be obvious to modify Webber so that the extended surface features are in a staggered arrangement, in view of Reagan et al, for the purpose of providing more even heat exchange.
- 7. New claim 98 is indefinite because it depends from itself.
- 8. Claims 7, 18, 26, 56, 57, 60, and 62-95 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on July 20, 2004.
- 9. Applicant's arguments filed December 16, 2004 have been fully considered but they are not persuasive. Applicant states that the Webber reference does not teach a

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means for flowing a first external fluid across the condenser wherein the fluid flow is parallel with the heat transfer surface of the condenser. Applicant's assertion that the air from fan 28 would flow into or out of the page with respect to Fig. 1 and therefor perpendicular to the surface of the piping of condenser 22 is simply not supported by Webber's drawings. It is well settled that the references are interpreted for their plain common-sense meaning. The plain meaning of Fig. 1 of Webber is that the air flow is from right to left, from the fan 28 and parallel to the tubing of the condenser. Applicant would need to file an affidavit with factual evidence to support his allegations that the air flow is perpendicular to the tubing of the condenser.

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- 10. Also, the drawings of a patent can be used as prior art. See, for example In re Lamb, 140 USPQ 490, or In re Aslanian, 200 USPQ 500. Also, see MPEP 2121.04 and 2125.
- With regards to claim 4, Webber discloses the condenser as having a second 11. surface on the inside of the coil. The condenser has a tubular shape, which is the shape of each individual pipe or line. Thus Webber meets the claimed limitations of claims 4 and 5.
- 12. With regards to the arguments to claims 52-55 and 58, the same thing applies. Each tube that makes up the condenser coil has an outer layer and an inner layer.
- 13. Claims 9-17, 27-33, 36, and 96 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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14. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (703) 308-2640. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise L. Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William E/Tapolcai Primary Examiner Art Unit 3744 Page 6

wet January 13, 2005